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APPLICATION NO.	F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/838,170 04/20/2001		04/20/2001	Shigemi Kurashima	1614.1162	9034	
21171	7590	07/11/2006		EXAMINER		
STAAS &	HALSEY	Y LLP	NGUYEN, KIMNHUNG T			
SUITE 700 1201 NEW	YORK A	VENUE, N.W.	ART UNIT	PAPER NUMBER		
WASHING		•	2629			
				DATE MAILED: 07/11/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

<del></del>		Applicati	on No.	Applicant(s)						
		09/838,1		KURASHIMA ET AL.						
	Office Action Summary	Examine		Art Unit	<u> </u>					
		Kimnhung	ı Nauven	2629	į					
	The MAILING DATE of this communication a				ddress					
Period fo	or Reply									
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REP CHEVER IS LONGER, FROM THE MAILING nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by stature ply received by the Office later than three months after the mai ed patent term adjustment. See 37 CFR 1.704(b).	DATE OF TH 1.136(a). In no ev od will apply and w tute, cause the app	HIS COMMUNICATION ent, however, may a reply be timil expire SIX (6) MONTHS from dication to become ABANDONE	N. nely filed the mailing date of this o D (35 U.S.C. § 133).						
Status										
1)⊠	Responsive to communication(s) filed on Am	nendment file	ed on 2/1/06.							
2a) <u></u> □	This action is <b>FINAL</b> . 2b)⊠ Th	nis action is n	on-final.							
3)[	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is									
	closed in accordance with the practice under	r Ex parte Qu	<i>ayle</i> , 1935 C.D. 11, 45	i3 O.G. 213.						
Disposit	ion of Claims									
4)⊠	4)⊠ Claim(s) <u>1-30</u> is/are pending in the application.									
-	4a) Of the above claim(s) is/are withdrawn from consideration.									
	Claim(s) is/are allowed.									
· · · · · · · · · · · · · · · · · · ·	i)⊠ Claim(s) <u>1-11, 16-23 and 28-30</u> is/are rejected.									
7)	Claim(s) is/are objected to.									
		l/or election r	equirement.							
Applicati	ion Papers									
	The specification is objected to by the Examir	ner								
			objected to by the F	- - - - - - - -						
,	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
	Replacement drawing sheet(s) including the corre				FR 1.121(d).					
11)	The oath or declaration is objected to by the I	•	• • • •		• •					
Priority ι	ınder 35 U.S.C. § 119									
	Acknowledgment is made of a claim for foreig	an priority un	der 35 U.S.C. & 119(a)	-(d) or (f)						
	☑ All b)☐ Some * c)☐ None of:	gir priority arr	der 00 0.0.0. § 110(a)	-(a) or (i).						
-/,	1.⊠ Certified copies of the priority docume	nts have bee	n received.							
	2. Certified copies of the priority document			on No						
	3. Copies of the certified copies of the pri		• •	<del></del>	Stage					
	application from the International Bure	au (PCT Rul	e 17.2(a)).		•					
* 5	See the attached detailed Office action for a lis	st of the certi	fied copies not receive	d.						
<b></b>										
Attachmen	t(s) e of References Cited (PTO-892)		A) Intensions Commerce	(DTO 442)						
	e of References Cited (P1O-892) e of Draftsperson's Patent Drawing Review (PTO-948)		4) Interview Summary Paper No(s)/Mail Da	ite						
3) 🔲 Inform	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/0	18)	5) Notice of Informal Pa		O-152)					
Paper No(s)/Mail Date 6) Other:										

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#### **DETAILED ACTION**

This application has been examined. The claims 1-30 are pending. The examination results are as following.

#### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 4/28/06 has been entered.

#### Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-11, 16-23, and 28-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hum et al. (US 6,714,133) in view of Rilling (US 6,564,044).

Regarding claims 1, 16, Hum et al. discloses in figure 1, an input system (10) comprising an information generation part which generates input information (12) based on a given input operation; a transmission part (6) substantially simultaneously transmitting a first signal and a second signals (see signals 17a-17c) generated by having a plurality of different carrier frequencies modulated with the same input information (see interrogator 12 may generate signals of different radio frequencies, see col. 8, lines 21-24, col. 10, lines 35-38); and a reception part

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(6) receiving the transmitted signals and demodulating (4) the signals into the same input information (12).

However, Hum et al. does not disclose a simultaneously transmitting a first signal and a second signal with the same input.

Rilling discloses in fig. 2, a transmitting system having a first and a second signals pairs are transmitted simultaneously from the same antenna (see abstract, see col. 3,lines 36-37).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the transmitting system having a first and a second signals are transmitted simultaneously from the same antenna as taught by Rilling into the information generation part generating input information based on a given input operation of Hum et al. for producing the claimed invention because this would provide the receiving antenna 24 collects all the multipath components, the characteristics of each pair are preserved as if they were transmitted alone (see col. 3, lines 39-43).

Regarding claims 2, 17, Hum discloses in figure 1, the input system further comprising wave direction parts (see signals 17a-17c) which are provided close to said transmission part so as to provide the signals transmitted from said transmission part with directivity.

Regarding claims 3,18, Hum discloses wherein said wave direction parts are antennas (see signals 17a-17c).

Regarding claims 4, 19, Hum discloses in fig. 1, the transmission part (6) comprises a plurality of transmission circuits (2, 4,5,7) for transmitting the signals of the different carrier frequencies as discussed above.

Regarding claims 5-6, 20-21, Hum discloses in figure 1, the transmission part (6) comprises an output part (8) which successively outputs of the different carrier frequencies and modulation part (4) as discussed above.

Regrading claim 7, Hum discloses in fig. 1, the reception part (6) comprises a plurality of reception circuits (4, 5, 7) for receiving the transmitted signals and demodulating (4) the signals into the input information (10).

Regarding claims 8-9, Hum discloses the input system further comprising an inherent pad member (because input device (9) is a keypad, keyboard or another input device (see col. 6, lines 51-53) and including conductive wire (see col. 3, lines 53-56), and further comprising a conductive part (see keyboard).

Regarding claims 10, 23, Hum discloses further an inherent conductive plate member (see keyboard associated with objects such as dashboards and provide feedback to the user), and conductive part (keyboard), therefore, wherein said conductive part contacts said conductive plate member so that the signals transmitted from the transmission part are transmitted via said conductive part to the conductive plate member.

Regarding claim 11, Hum discloses in fig. 1, the input system comprising a plurality of wave direction parts (see signals 17a-17c) for receiving the signals transmitted from said transmission part (6), said wave direction parts being provided on a side of said reception part (6).

Regarding claim 30, Hum discloses in fig. 1, an input device, comprising an information generation part generating input information (10) based on an input operation; and a transmission

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part (6) substantially simultaneously transmitting the same input information by a plurality of carrier frequencies (see col. 8, lines 21-24, col. 10, lines 35-38).

### Allowable Subject Matter

4. Claims 12-15 and 24-27 are allowed.

5. The following is an examiner's statement of reasons for allowance: The present invention is directed to an information generation part generating input information based on given input operation; a transmission part generating a signal by having a carrier frequency modulated with the input information, and transmitting the generated signal; a plurality of wave direction parts provided close to said transmission part so as to provide the signal transmitted from said transmission part with directivity. The combination of the closest prior art of Hum et al. (US 6,714,133) and Rilling (US 6,564,044) show a similar invention, however, they fail to teach that wherein the signal transmitted at a timing from the transmission part is provided alternatively to the wave direction parts so that the same input information is transmitted alternately through the wave direction parts as claims 12 and 24

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Response To Arguments

6. Applicant's arguments with respect to claims filed on 2/1/06 have been considered but are most in view of the new ground(s) of rejection.

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Correspondence

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Kimnhung Nguyen whose telephone number is (571) 272-7698.

The examiner can normally be reached on MON-FRI, FROM 8:30 AM-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Richard Hjerpe can be reached on (571) 272-7691. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Cimpliang Concern
Kimnhung Nguyen
Patent Examiner

July 7, 2006